

# SAFETY DATA SHEET

Issue Date 02-23-2017 Revision Date 02-23-2017 Version 2

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name: A/C ODOR TREATMENT

Other means of identification

 Common Name:
 1050

 UN/ID No
 UN1950

 Synonyms
 None

Product Categories Aerosol Automotive air conditioner odor treatment

Recommended use of the chemical and restrictions on use

Sale and Use Restrictions Not applicable

**Recommended Use** Restricted to professional users.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

**Supplier Address** 

MOC PRODUCTS CO., INC. 12306 Montague Street Pacoima, CA 91331

Emergency telephone number

Company Phone Number MOC PRODUCTS CO., INC. (818) 794-3500

Emergency Telephone CHEMTREC 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

Classification

Flammable aerosols Category 2

Label elements

**Emergency Overview** 

Warning

Hazard statements

Flammable aerosol

Pressurized container: May burst if heated



**Appearance** Aqueous solution, Compressed gas

e Aqueous solution, Physical state Aerosol

Odor Alcohol

**Precautionary Statements - Prevention** 

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Do not spray on an open flame or other ignition source

Pressurized container: Do not pierce or burn, even after use

#### **Precautionary Statements - Response**

### **Precautionary Statements - Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

#### Hazards not otherwise classified (HNOC)

#### Other information

· Toxic to aquatic life with long lasting effects

26.42 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	Trade Secret
1, 1 Difluoroethane	75-37-6	20-30	*
Ethyl alcohol	64-17-5	10-20	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### First aid measures

Wash with plenty of soap and water. Take off contaminated clothing and wash it before Skin contact

reuse.

Inhalation Move to fresh air in case of accidental inhalation of vapors. If breathing is labored,

administer oxygen. If not breathing, give artificial respiration. Seek medical attention.

Immediately flush eyes for at least 15 minutes. Get medical attention. Eye contact

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

**Notes to Physician** Do not give adrenaline or similar drugs.

### Most important symptoms and effects, both acute and delayed

**Symptoms** Drowsiness, Dizziness, Coughing and/ or wheezing; Unconsciousness, Eye irritation, Skin

irritation.

# Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider Avoid breathing vapors or mists. Avoid contact with skin.

# 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media:

Use dry chemical, CO2, water spray (fog) or alcohol resistant foam.

**Small Fire** Dry chemical or CO2.

Large Fire Water spray or fog, Alcohol resistant foam.

Pressurized container: May burst if heated. Risk of explosion if heated under confinement. **Explosive properties:** 

May form explosive peroxides.

# Specific hazards arising from the chemical

Flammable aerosol. Pressurized container: May burst if heated. Contents under pressure. Keep away from open flames, hot surfaces and sources of ignition. Vapors are heavier than air and may spread along floors. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Vapors may travel to areas away from work site before igniting/flashing back to vapor source.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO2), Hydrocarbons, Hydrogen fluoride, Carbonyl fluoride.

Specific methods:

Sensitivity to Mechanical Impact None.

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames.

#### Special firefighting procedures:

FLAMMABLE AEROSOL. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep exposed unopened containers cool to prevent rupture. Water mist may be used to cool closed containers.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Remove all sources of ignition. Pay attention to flashback. Ventilate closed spaces before

entry. Use spark-proof tools and explosion-proof equipment. Avoid contact with skin, eyes and clothing. Use personal protective equipment. See Section 8 for information on

appropriate personal protective equipment.

For emergency responders

Use personal protection recommended in Section 8. Remove all sources of ignition. Pay

attention to flashback. Ventilate the area.

Environmental precautions

**Environmental precautions:** Environmental hazard: Prevent further leakage or spillage if safe to do so. Prevent product

from entering drains. Do not flush into surface water or sanitary sewer system. Water runoff

can cause environmental damage. Avoid subsoil penetration.

Methods and material for containment and cleaning up

Methods for Containment Stop leak if you can do it without risk. Remove all sources of ignition. Ventilate the area.

Use non-sparking tools.

Methods for clean-up: Pressurized container: Do not pierce or burn, even after use. Clean-up methods - small

spillage: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a chemical waste container for later disposal. Large spills present a vapor explosion and liquid fire hazard; evacuate area and ensure response by personnel trained and equipped to respond to flammable material incident or off-site emergency

responders or fire department.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. HANDLING AND STORAGE

## Precautions for safe handling

**Handling:** Pressurized container: Do not pierce or burn, even after use. Keep product and empty

container away from heat and sources of ignition. Protect from physical damage. Protect from freezing (<0°C, or 32°F). Do not store at temperatures above 120°F (50°C). Store in a cool, well ventilated area. Keep away from any incompatible materials (See Section 10). Misuse or intentional inhalation abuse may cause death without warning symptoms, due to

cardiac effects.

#### Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Mechanical ventilation required if used indoors on a continuous basis.

Materials to avoid: Light and/or alkaline metals, Alkaline earth metals, Acids, Bases, Oxidizing agents, Amines,

Ammonia, Peroxides, Halogens.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Components	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
1, 1 Difluoroethane 75-37-6	-	Not established	-
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

Other information WEEL (Workplace Environmental Limit) 8 hr TWA AIHA: 1,1 Difluorethane (CAS#75-37-6)

1000 ppm TWA 8Hrs.

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Mechanical ventilation required if **Engineering measures:** 

used indoors on a continuous basis.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear normal work clothing, Chemical resistant gloves: (consult with the specific

manufacturer to confirm performance).

Ensure adequate ventilation. No protective equipment is needed under normal use Respiratory protection

conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace

conditions warrant a respirator's use.

Handle in accordance with good industrial hygiene and safety practice. When using do not **General Hygiene Considerations** 

eat, drink or smoke. Avoid contact with eyes, skin and clothing. Use personal protective equipment. Wear suitable gloves and eye/face protection. Avoid breathing vapors or mists. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated

clothing and wash it before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state** Aerosol

**Appearance** Aqueous solution, Compressed gas Odor Alcohol

Cloudy White Odor threshold Color No information available

Values Remarks • Method Property Not applicable N/A

pН Melting point/freezing point

No information available

Boiling point / boiling range No information available . / . Flash point No information available . / .

Not applicable **Evaporation rate** Slower than ether

Flammability (solid, gas) No information available Flammability Limits in Air

**Upper flammability limit** No Data Available No Data Available Lower flammability limit

Vapor pressure >501 kPa @ 18.3 °C

Vapor density Heavier than air

**Specific Gravity** 0.95 Of liquid

Water solubility Completely soluble Solubility in other solvents No Data Available Partition coefficient No Data Available **Autoignition temperature** No Data Available **Decomposition temperature** No Data Available Kinematic viscosity No information available **Dvnamic viscosity** No Data Available **Explosive properties** No Data Available No Data Available **Oxidizing properties** 

Other information

Softening point No Data Available Molecular weight No Data Available

**VOC Content (%)** 

**VOC Content (%)** 21.6

Contains California VOC exempt solvent

0.95 g/cc (liquid) **Density Bulk density** No Data Available

### 10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable under normal conditions.

Chemical stability

Stability Keep away from flames and hot surfaces. Keep away from direct sunlight.

Possibility of Hazardous Reactions May form explosive peroxides.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Temperatures above 120 °C.

Incompatible materials

Light and/or alkaline metals, Alkaline earth metals, Acids, Bases, Oxidizing agents, Amines, Materials to avoid:

Ammonia, Peroxides, Halogens.

**Hazardous Decomposition Products** 

Hazardous Decomposition Products Carbon monoxide, Carbon dioxide (CO2); Hydrocarbons, Hydrogen fluoride; Carbonyl fluoride.

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

May be harmful if swallowed. May cause eye irritation. May cause skin irritation. **Product Information** 

Inhalation High vapor/aerosol concentrations (> ~100 ppm) are irritating to the respiratory tract and

may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other

central nervous system effects, including death.

Eve contact May cause irritation.

**Skin Contact** Prolonged skin contact may defat the skin and produce dermatitis.

#### Ingestion

Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

Components	Oral LD50	Dermal LD50	Inhalation LC50
1, 1 Difluoroethane	>1500 mg/kg (Rat) -		=64000 ppm (Rat) 4h
75-37-6			
Ethyl alcohol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
64-17-5			- ` ',

# Information on toxicological effects

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization: Not expected. Respiratory Sensitization: Not classified.

Mutagenic effects: 1,1 Difluoroethane (CAS#75-37-6) has not produced genetic damage in bacterial cultures.

There are reports indicating this compound produced genetic damage in some mammalian

cell culture tests. A weak genotoxic effect in the germ cells of Drosophila melanogaster

(fruit fly) has been reported. It has not been tested in animals.

Carcinogenicity Category 3: Not Classifiable. Ethanol has been shown to be carcinogenic in long-term

studies only when consumed as an alcoholic beverage.

**Reproductive toxicity** Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic

beverage.

STOT - single exposure Not classified.
STOT - repeated exposure Not classified.

Chronic toxicity Intentional misuse by deliberately concentrating and inhaling contents may be harmful or

fatal. Prolonged skin contact may defat the skin and produce dermatitis.

Target Organ Effects Eyes, Liver, Kidney, Heart, Central nervous system.

Neurological effects Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting. Intentional misuse by deliberately concentrating and

inhaling contents may be harmful or fatal.

Other adverse effects 1,1 Difluoroethane - Cardiac Sensitization -Low Observed Adverse Effect Concentration -

(LOAEC)/Dog - 150000 ppm.

**Aspiration hazard** Risk of serious damage to the lungs (by aspiration).

#### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 26.42 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 31599 mg/kg
ATEmix (dermal) 24539 mg/kg
ATEmix (inhalation-dust/mist) 7.7 mg/l
ATEmix (inhalation-vapor) 558.1 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chronic Aquatic Toxicity: Toxic to aquatic life with long lasting effects.

27.39 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Components	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ethyl alcohol		12.0 - 16.0: 96 h		9268 - 14221: 48 h
64-17-5		Oncorhynchus mykiss		Daphnia magna mg/L
		mL/L LC50 static 100: 96 h		LC50 2: 48 h Daphnia
		Pimephales promelas		magna mg/L EC50 Static
		mg/L LC50 static 13400 -		
		15100: 96 h Pimephales		
		promelas mg/L LC50		
		flow-through		

# Persistence and degradability

No information available.

#### **Bioaccumulation**

Bioaccumulative potential.

#### Mobility

Soluble in water.

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes**Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Pressurized container: Do not pierce or burn, even after use. Dispose of in accordance with

federal, state and local regulations.

# 14. TRANSPORT INFORMATION

DOT

UN/ID No
Proper Shipping Name: Aerosols
Hazard Class 2.1
Packing Group: N/A
Emergency Response Guide 126

Number

<u>IATA</u>

UN/ID No
Proper Shipping Name: Aerosols
Hazard Class 2.1
Packing Group: N/A

<u>IMDG</u>

UN/ID No
Proper Shipping Name:
Hazard Class
Packing Group:

UN1950
Aerosols
2
N/A

Limited quantity (LQ) < 1 Liter

# 15. REGULATORY INFORMATION

# International Inventories

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

# **Federal Regulations**

### **SARA 313**

No SARA 313 chemicals are present above the reporting threshold.

#### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard Yes
Sudden release of pressure hazard Yes
Reactive Hazard No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

# State Regulations (RTK)

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# **U.S. State Right-to-Know Regulations**

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

# **16. OTHER INFORMATION**

### NFPA Rating

Health hazards 1 Flammability -Instability 0

Physical and Chemical Properties NFPA Level 2 aerosol

HMIS Rating
Health hazards 1
Flammability 3
Physical hazards 1
Personal protection B

Prepared by Environmental Health and Safety Department

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 02-23-2017

**Revision Note** 

Formula. This data sheet contains changes from the previous version in section(s): 7,11

#### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**